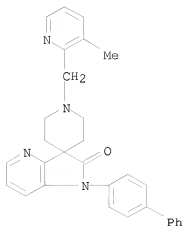




10/581,176



IT 1192834-07-3P  
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(spiroazaindoles useful as HIF prolyl hydroxylase inhibitors to treat anemia)

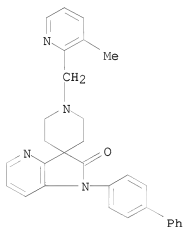
RN 1192834-07-3 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-2' (1'H)-one,  
1'-[1,1'-biphenyl]-4-yl-1-[(3-methyl-2-pyridinyl)methyl]-,  
2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 1192833-96-7

CMF C30 H28 N4 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on SIN

ACCESSION NUMBER: 2007:143519 CAPLUS

DOCUMENT NUMBER: 146:229382

TITLE: Preparation of dipiperazinyl ketones and related analogues as modulators of histamine H3 receptor binding

INVENTOR(S): Xie, Linghong; Ochterski, Joseph W.; Gao, Yang; Han, Bingsong; Caldwell, Timothy M.; Xu, Yuelian; Peterson, John M.; Ge, Ping; Ohliger, Robert

PATENT ASSIGNEE(S): Neurogen Corporation, USA

SOURCE: PCT Int. Appl., 279pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007016496	A2	20070208	WO 2006-US29761	20060728
WO 2007016496	A3	20090430		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
AU 2006275568	A1	20070208	AU 2006-275568	20060728
CA 2606004	A1	20070208	CA 2006-2606004	20060728
US 20070049571	A1	20070301	US 2006-495986	20060728
EP 1909797	A2	20080416	EP 2006-788999	20060728
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			
JP 2009506987	T	20090219	JP 2008-525081	20060728
PRIORITY APPLN. INFO.:			US 2005-704722P	P 20050802
			WO 2006-US29761	W 20060728

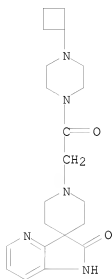
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 146:229382; MARPAT 146:229382

GI

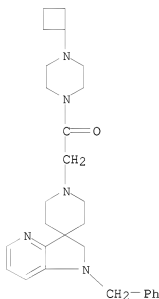


10/581,176



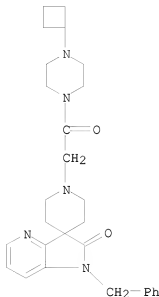
RN 923936-98-5 CAPLUS

CN Ethanone, 1-(4-cyclobutyl-1-piperazinyl)-2-[1',2'-dihydro-1'-(phenylmethyl)spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1-yl]- (CA INDEX NAME)



RN 923937-00-2 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-2'(1'H)-one, 1-[2-(4-cyclobutyl-1-piperazinyl)-2-oxoethyl]-1'-(phenylmethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(1 CITINGS)

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:588966 CAPLUS

DOCUMENT NUMBER: 143:115453

TITLE: Preparation of spiro piperidines and related compounds  
as pesticides

INVENTOR(S): Molleyres, Louis-Pierre; Cassayre, Jerome; Cederbaum,  
Fredrik; Maiefisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 176 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061500	A1	20050707	WO 2004-IB4083	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004303618	A1	20050707	AU 2004-303618	20041209
CA 2547814	A1	20050707	CA 2004-2547814	20041209
EP 1694677	A1	20060830	EP 2004-806330	20041209
EP 1694677	B1	20091202		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

CN 1894249	A	20070110	CN 2004-80037007	20041209
BR 2004017544	A	20070327	BR 2004-17544	20041209
JP 2007516972	T	20070628	JP 2006-543658	20041209
CN 101544640	A	20090930	CN 2009-10139118	20041209
AT 450538	T	20091215	AT 2004-806330	20041209
MX 2006006212	A	20060809	MX 2006-6212	20060601
ZA 2006004644	A	20071128	ZA 2006-4644	20060606
KR 2006123308	A	20061201	KR 2006-711568	20060612
IN 2006CN02073	A	20070706	IN 2006-CN2073	20060612
US 20070135408	AI	20070614	US 2007-581176	20070129

PRIORITY APPLN. INFO.:

	GB 2003-28905	A	20031212
	CN 2004-80037007	A3	20041209
	WO 2004-IB4083	W	20041209

OTHER SOURCE(S): CASREACT 143:115453; MARPAT 143:115453

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [W = (R4)n; n = 0-3; X = (Cra2)p; Z = (Cra2)q; Ra = H, halo, OH, etc.; p = 0-6; q = 0-6; Y = single bond, CO, CS, etc.; R1 = H, alkyl, alkoxy, carbonyl, etc.; R2, R3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; R8 = alkyl, alkenyl, alkynyl, etc.; T = 5- or 6-membered heteroarom. ring] and N-oxides were prepared. For example, N-alkylation of piperidine II with 4-chlorocinnamyl chloride afforded spiropiperidine III in 58% yield. In diamondback moth protection assays, 72-examples of compds. I at 18.2 ppm exhibited at least 80% protection after 5-days.

IT 857730-03-1P 857730-25-7P 857730-26-8P  
857730-27-9P 857730-28-0P 857730-29-1P  
857730-30-4P 857730-31-5P 857730-32-6P  
857730-33-7P 857730-34-8P 857730-35-9P  
857730-36-0P 857730-37-1P 857730-38-2P  
857730-39-3P 857730-40-6P 857730-41-7P  
857730-42-8P 857730-43-9P 857730-44-0P  
857730-45-1P 857730-46-2P 857730-47-3P  
857730-48-4P 857730-49-5P 857730-50-8P  
857730-51-9P 857730-52-0P 857730-53-1P  
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857730-66-6P 857730-67-7P 857730-68-8P  
857730-69-9P 857730-70-2P 857730-71-3P  
857730-72-4P 857730-73-5P 857730-74-6P  
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857730-78-0P 857730-79-1P 857730-80-4P

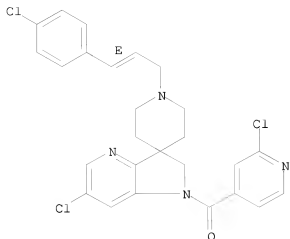
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);  
SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of spiropiperidines and related compds. as pesticides)

RN 857730-03-1 CAPLUS

CN Methanone, [6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

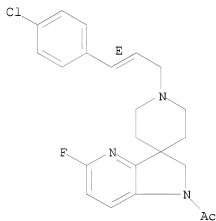
10/581,176



RN 857730-25-7 CAPLUS

CN Ethanone, 1-[1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.



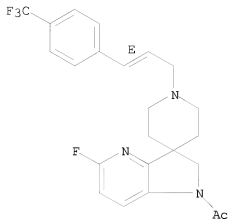
RN 857730-26-8 CAPLUS

CN Ethanone, 1-[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.



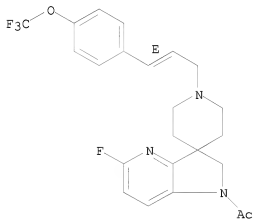
10/581,176



RN 857730-27-9 CAPLUS

CN Ethanone, 1-[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

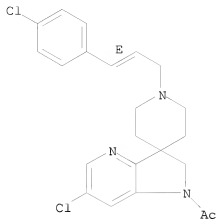


RN 857730-28-0 CAPLUS

CN Ethanone, 1-[6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

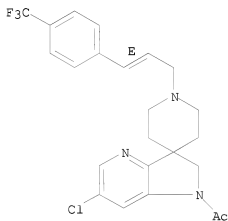
10/581,176



RN 857730-29-1 CAPLUS

CN Ethanone, 1-[6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

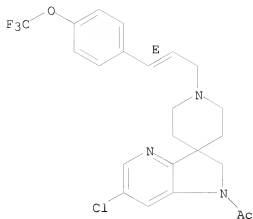


RN 857730-30-4 CAPLUS

CN Ethanone, 1-[6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

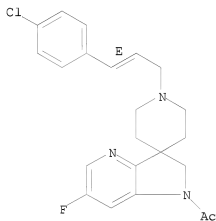
10/581,176



RN 857730-31-5 CAPLUS

CN Ethanone, 1-[1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-6'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

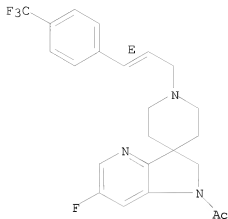


RN 857730-32-6 CAPLUS

CN Ethanone, 1-[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

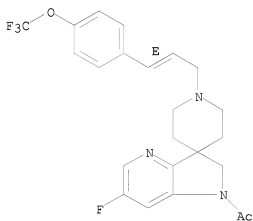
10/581,176



RN 857730-33-7 CAPLUS

CN Ethanone, 1-[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

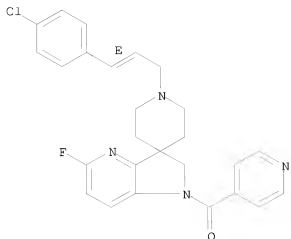


RN 857730-34-8 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

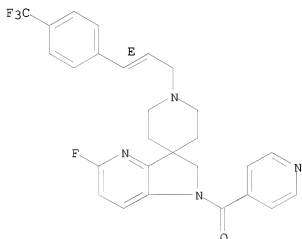
Double bond geometry as shown.

10/581,176



RN 857730-35-9 CAPLUS  
CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

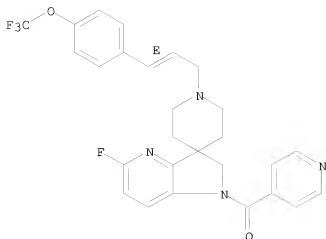
Double bond geometry as shown.



RN 857730-36-0 CAPLUS  
CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

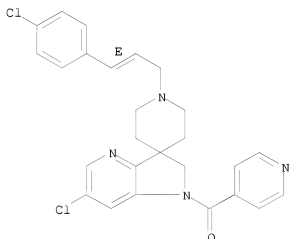
10/581,176



RN 857730-37-1 CAPLUS

CN Methanone, [6'-chloro-1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

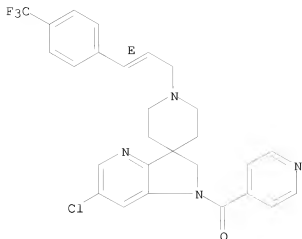


RN 857730-38-2 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1'-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

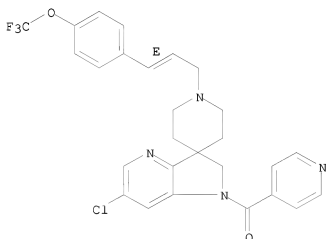
10/581,176



RN 857730-39-3 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

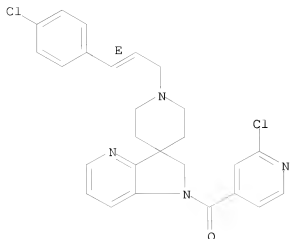


RN 857730-40-6 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

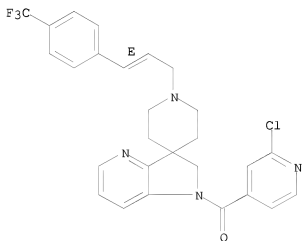
10/581,176



RN 857730-41-7 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.



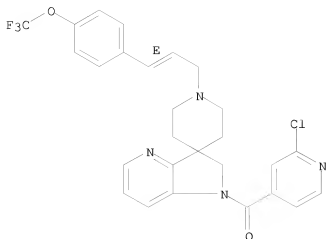
RN 857730-42-8 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.



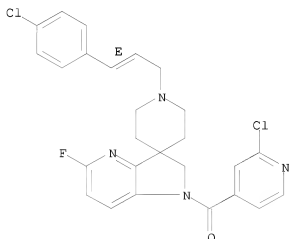
10/581,176



RN 857730-43-9 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

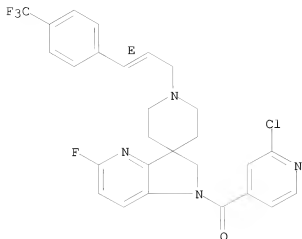


RN 857730-44-0 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

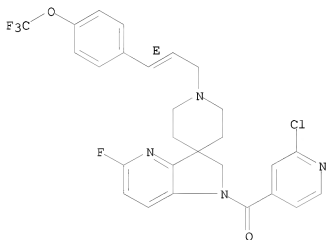
10/581,176



RN 857730-45-1 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl) [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

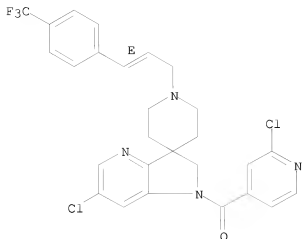


RN 857730-46-2 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

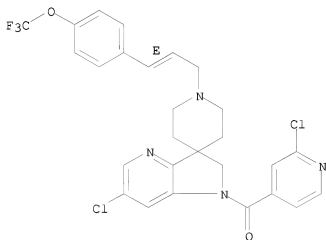
10/581,176



RN 857730-47-3 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

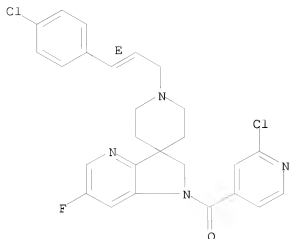


RN 857730-48-4 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-6'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

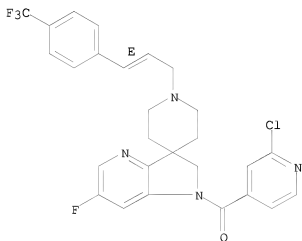
10/581,176



RN 857730-49-5 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

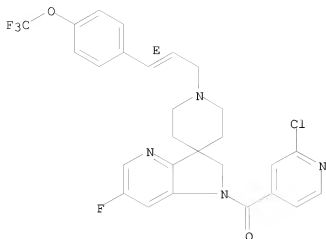


RN 857730-50-8 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

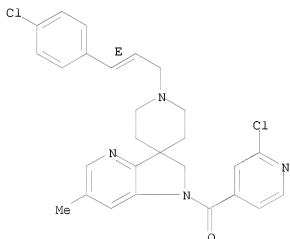
10/581,176



RN 857730-51-9 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydro-6'-methylspiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

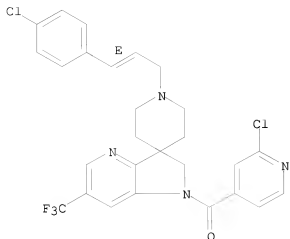


RN 857730-52-0 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydro-6'-(trifluoromethyl)spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

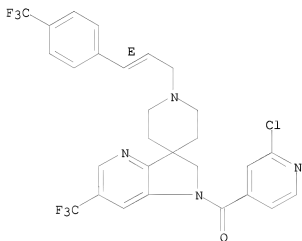
10/581,176



RN 857730-53-1 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-6'-(trifluoromethyl)-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

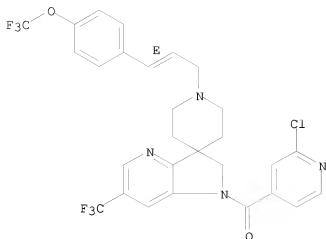


RN 857730-54-2 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]-6'-(trifluoromethyl)spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

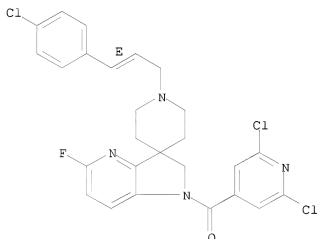
10/581,176



RN 857730-55-3 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

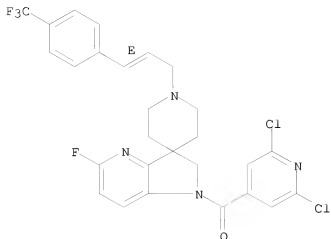


RN 857730-56-4 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl)[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

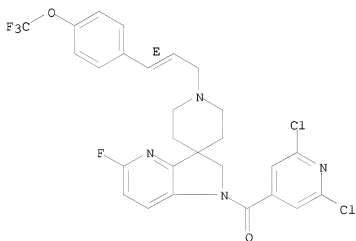
10/581,176



RN 857730-57-5 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl) [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

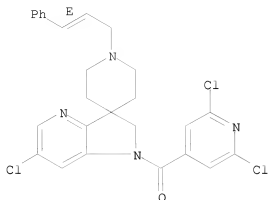


RN 857730-58-6 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-phenyl-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

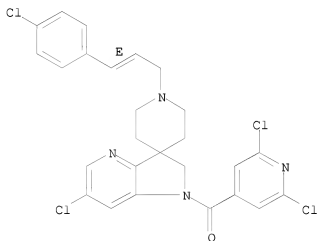




RN 857730-59-7 CAPLUS

CN Methanone, [6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

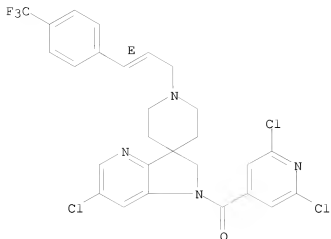


RN 857730-60-0 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

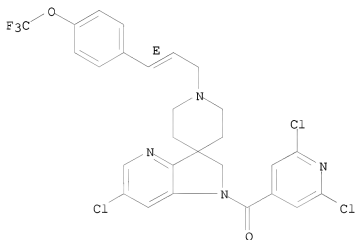
10/581,176



RN 857730-61-1 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

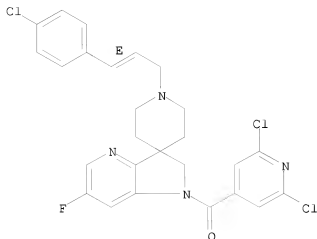


RN 857730-62-2 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-6'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

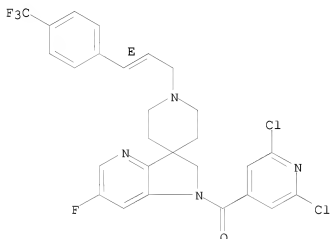
10/581,176



RN 857730-63-3 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl) [6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

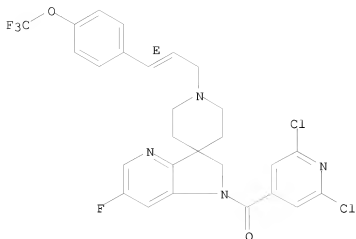


RN 857730-64-4 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl) [6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

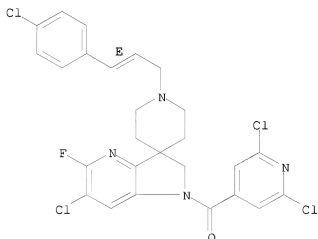
10/581,176



RN 857730-65-5 CAPLUS

CN Methanone, [6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

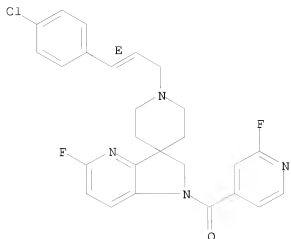


RN 857730-66-6 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

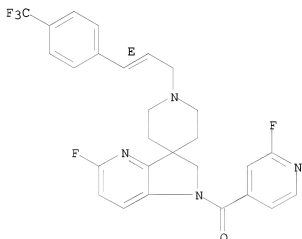
10/581,176



RN 857730-67-7 CAPLUS

CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

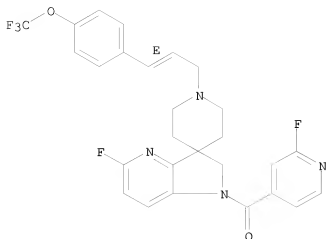


RN 857730-68-8 CAPLUS

CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

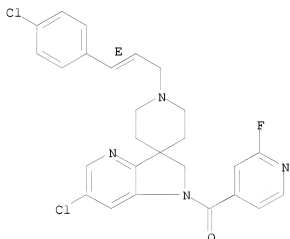
10/581,176



RN 857730-69-9 CAPLUS

CN Methanone, [6'-chloro-1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

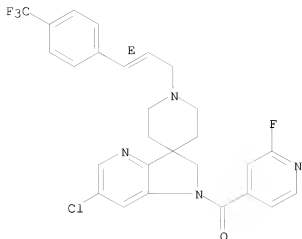


RN 857730-70-2 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1'-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

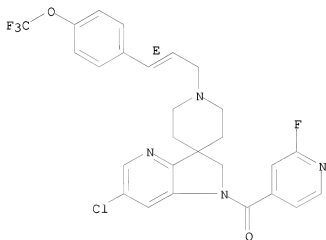
10/581,176



RN 857730-71-3 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

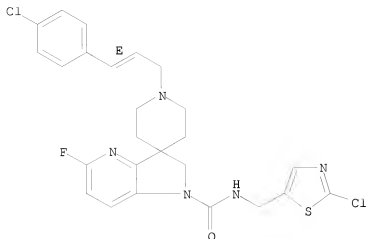


RN 857730-72-4 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'(2'H)-carboxamide, 1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-N-[(2-chloro-5-thiazolyl)methyl]-5'-fluoro- (CA INDEX NAME)

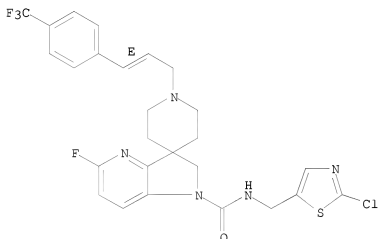
Double bond geometry as shown.

10/581,176



RN 857730-73-5 CAPLUS  
 CN Spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
 N-[(2-chloro-5-thiazolyl)methyl]-5'-fluoro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

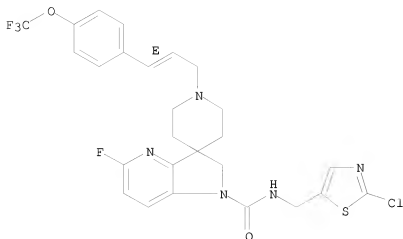


RN 857730-74-6 CAPLUS  
 CN Spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
 N-[(2-chloro-5-thiazolyl)methyl]-5'-fluoro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



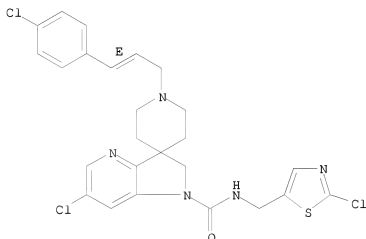
10/581,176



RN 857730-75-7 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'-(2'H)-carboxamide,  
6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-N-[(2-chloro-5-  
thiazolyl)methyl]- (CA INDEX NAME)

Double bond geometry as shown.

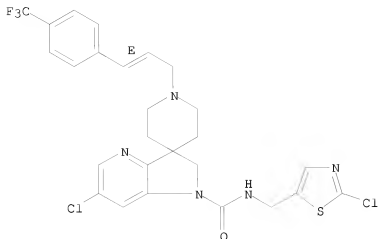


RN 857730-76-8 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'-(2'H)-carboxamide,  
6'-chloro-N-[(2-chloro-5-thiazolyl)methyl]-1-[(2E)-3-[4-  
(trifluoromethyl)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

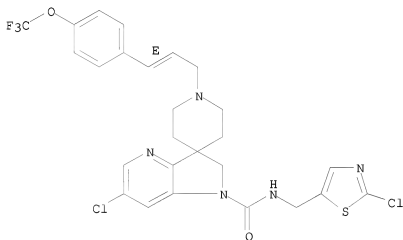
10/581,176



RN 857730-77-9 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'-(2'H)-carboxamide,  
6'-chloro-N-[(2-chloro-5-thiazolyl)methyl]-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

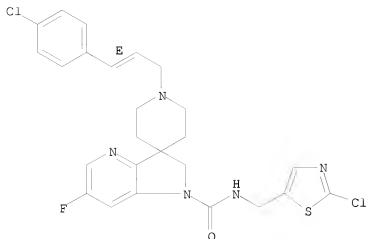


RN 857730-78-0 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'-(2'H)-carboxamide,  
1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-N-[(2-chloro-5-thiazolyl)methyl]-  
6'-fluoro- (CA INDEX NAME)

Double bond geometry as shown.

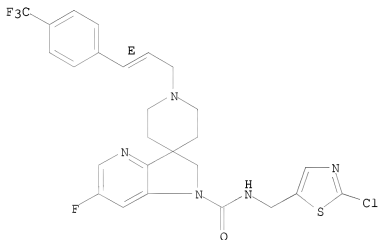
10/581,176



RN 857730-79-1 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
N-[(2-chloro-5-thiazolyl)methyl]-6'-fluoro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

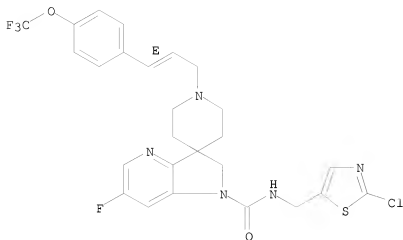
Double bond geometry as shown.



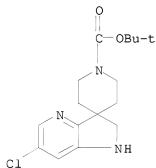
RN 857730-80-4 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
N-[(2-chloro-5-thiazolyl)methyl]-6'-fluoro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

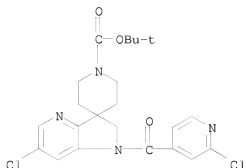
Double bond geometry as shown.



IT 857730-15-5P 857730-16-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of spiro piperidines and related compds. as pesticides)  
 RN 857730-15-5 CAPLUS  
 CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1-carboxylic acid,  
 6'-chloro-1',2'-dihydro-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 857730-16-6 CAPLUS  
 CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1-carboxylic acid,  
 6'-chloro-1'-[(2-chloro-4-pyridinyl)carbonyl]-1',2'-dihydro-,  
 1,1-dimethylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:335409 CAPLUS

DOCUMENT NUMBER: 132:334474

TITLE: Preparation of spiroindolines as Y5 receptor antagonists

INVENTOR(S): Gao, Ying-duo; Macneil, Douglas J.; Yang, Lihu; Morin, Nancy R.; Fukami, Takehiro; Kanatani, Akio; Fukuroda, Takahiro; Ishii, Yasuyuki; Morin, Masaki

PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Banyu Pharmaceutical Co., Ltd.; et al.

SOURCE: PCT Int. Appl., 130 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027845	A1	20000518	WO 1999-US26447	19991108
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350714	A1	20000518	CA 1999-2350714	19991108
US 6191160	B1	20010220	US 1999-436120	19991108
EP 1129089	A1	20010905	EP 1999-971808	19991108
EP 1129089	B1	20051228		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
AU 756797	B2	20030123	AU 2000-14732	19991108
AT 314371	T	20060115	AT 1999-971808	19991108
ES 2255330	T3	20060616	ES 1999-971808	19991108
US 6313298	B1	20011106	US 2000-656698	20000907
US 20020058813	A1	20020516	US 2001-896940	20010629
US 6495559	B2	20021217		
US 6638942	B1	20031028	US 2002-228250	20020826
US 20040063942	A1	20040401	US 2003-624414	20030721

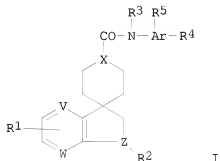
## PRIORITY APPLN. INFO.:

US 1998-107835P	P 19981110
US 1999-436120	A3 19991108
WO 1999-US26447	W 19991108
US 2000-656698	A3 20000907
US 2001-896940	A3 20010629
US 2002-228250	A3 20020826

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 132:334474

GI



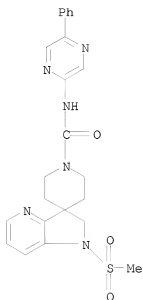
AB The title compds. I [V, W, X, Z = CH, N; R1 = H, alkyl, etc.; R2 = CHO, etc.; R3 = H, alkyl; Ar = aryl, heteroaryl; R4, R5 = H, nitro, etc.] are prepared I are useful in the treatment of obesity and the complications associated therewith. 1-Methanesulfonyl-N-(5-phenyl-2-pyrazinyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide at 3 mg/kg suppressed bovine pancreatic polypeptide-induced food intake in rats. Formulations are given.

IT 268537-71-9P

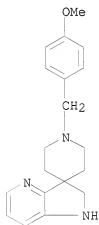
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of spiroindolines as Y5 receptor antagonists)

RN 268537-71-9 CAPLUS

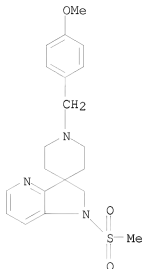
CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1-carboxamide, 1',2'-dihydro-1'-(methanesulfonyl)-N-(5-phenyl-2-pyrazinyl)- (CA INDEX NAME)



IT 268538-35-8P 268538-36-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of spiroindolines as Y5 receptor antagonists)  
 RN 268538-35-8 CAPLUS  
 CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine],  
 1',2'-dihydro-1-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

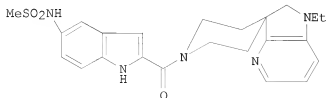


RN 268538-36-9 CAPLUS  
 CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine],  
 1',2'-dihydro-1-[(4-methoxyphenyl)methyl]-1'-(methylsulfonyl)- (CA INDEX  
 NAME)



OS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (42 CITINGS)  
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1995:752281 CAPLUS  
 DOCUMENT NUMBER: 123:339807  
 ORIGINAL REFERENCE NO.: 123:60991a,60994a  
 TITLE: Design and synthesis of a conformationally constrained analog of the bis(heteroaryl)piperazine (BHAP) HIV-1 reverse transcriptase inhibitor atavirdine  
 AUTHOR(S): Genin, Michael J.; Chidester, Constance G.; Rohrer, Douglas C.; Romero, Donna L.  
 CORPORATE SOURCE: Med. Chem. Res., Phys. Anal. Chem., Kalamazoo, MI, 49001, USA  
 SOURCE: Bioorganic & Medicinal Chemistry Letters (1995), 5(16), 1875-80  
 CODEN: BMCLE8; ISSN: 0960-894X  
 PUBLISHER: Elsevier  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 123:339807  
 GI



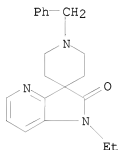
I

AB The design and synthesis of a novel conformationally constrained spiro analog of the BHAP class of HIV-1 reverse transcriptase inhibitors, I,

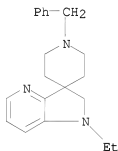


based on the mol. modeling and the x-ray crystal structure of the clin. candidate atevirdine, is described.

IT 170752-14-4P 170752-15-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (design and synthesis of the indolylcarbonylspiropiperidinepyrrolopyridine derivative, a conformationally constrained analog of BHAP HIV-1 reverse transcriptase inhibitor atevirdine)  
 RN 170752-14-4 CAPLUS  
 CN Spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-2' (1'H)-one, 1'-ethyl-1-(phenylmethyl)- (CA INDEX NAME)

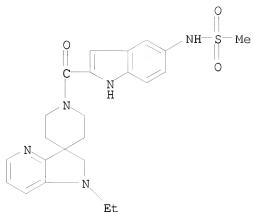


RN 170752-15-5 CAPLUS  
 CN Spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridine], 1'-ethyl-1',2'-dihydro-1-(phenylmethyl)- (CA INDEX NAME)



IT 170752-11-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (design and synthesis of the indolylcarbonylspiropiperidinepyrrolopyridine derivative, a conformationally constrained analog of BHAP HIV-1 reverse transcriptase inhibitor atevirdine)  
 RN 170752-11-1 CAPLUS  
 CN Methanesulfonamide, N-[2-[(1'-ethyl-1',2'-dihydrospiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1-yl)carbonyl]-1H-indol-5-yl]- (CA INDEX NAME)

10/581,176



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD  
(3 CITINGS)

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(FILE 'HOME' ENTERED AT 11:27:12 ON 25 MAR 2010)

FILE 'REGISTRY' ENTERED AT 11:27:31 ON 25 MAR 2010

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L3 72 S L1 FULL

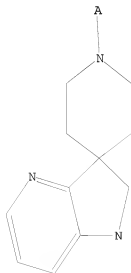
FILE 'CAPLUS' ENTERED AT 11:28:27 ON 25 MAR 2010

L4 5 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR



10/581,176

Structure attributes must be viewed using STN Express query preparation.

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